Chinese Taipei - 2021 Major Disaster Events and Disaster Risk Reduction Policy Implementation During COVID-19

Purpose: Information
Submitted by: Chinese Taipei
2021 Major Disaster Events and DRR Policy Implementation During COVID-19

Chinese Taipei

THE APEC EMERGENCY PREPAREDNESS WORKING GROUP (EPWG17) 2021/05/20-21)
Recent facts of COVID-19 in Chinese Taipei

On 5/15 Level 3 alert to Taipei City and New Taipei City

On 5/19 Level 3 alert to the whole cities and counties
Drought: Rainfall records in water catchments of major reservoirs since May 2020

The amounts reduce 2,500-3,000 mm compared with historical averages.

- 明德水庫: -2930 mm
- 翡翠水庫: -2421 mm
- 曾文水庫: -3050 mm
- 石門水庫: -2547 mm

- No typhoon hit in 2020
  - First time in 56 years
Drought is looming and casts its direct influences

- Agricultural irrigation (rice and fruit)
- Manufacturing industry (IC)
- Livelihood (cooking, bath, daily wash)
- Hygiene and Wash under COVID-19

- At monitoring stage
- Reduce water supply pressure at night
- Reduce non-necessary water supply
- Rotational water supply (5 days a week)

- **Direct impacts to**
  - Agricultural irrigation (rice and fruit)
  - Manufacturing industry (IC)
  - Livelihood (cooking, bath, daily wash)
  - Hygiene and Wash under COVID-19
Two back-to-back major shallow earthquakes (M5.8 and M6.2) hit the eastern Chinese Taipei on April 18.
Shake map of M6.2 quake
Check waveforms of accelerations of 6 elementary and junior high schools (P-alert)

P-alert installed in schools
Post-quake survey of schools receiving high PGAs

• An assessment team visited 6 schools to conduct damage survey
  – All 6 schools received very limited or no damage.

  Punch at construction joint  Falling ceiling

• Why very limited or no damage
  – Low-rising and rigid buildings
  – Seismic retrofits to 4 of 6 schools prove and enhance resilience.
Conclusion – DRR under COVID-19

• Slow-onset or sudden-onset disaster might couple with COVID and could create compound impacts
  • **Drought and COVID** can cause troubles of hygiene and sanitation.....
  • **Drought and quake** can cause troubles, if post-quake fires
  • **Quake and COVID** can cause troubles to sheltering, USAR and mass medical demands.....

• Effective resilience under COVID based on
  • Comprehensive risk evaluation and countermeasures
  • Systematic and well-organized operations with additional consideration

• **Teamwork of key stakeholders**
Thanks for your attention